

Cover Page  
HYDROLOGY REPORT  
TPM 21094 RPL-1  
L- TPM 21094

206 04-15-001

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DEPARTMENT OF PLANNING  
AND LAND USE

8/15/2008  
WO 6373

12222 A Woodside Ave. #237

Santee, CA 92071

WO 6373

**May Engineering  
& Surveying, Inc.**

Hydrology Report  
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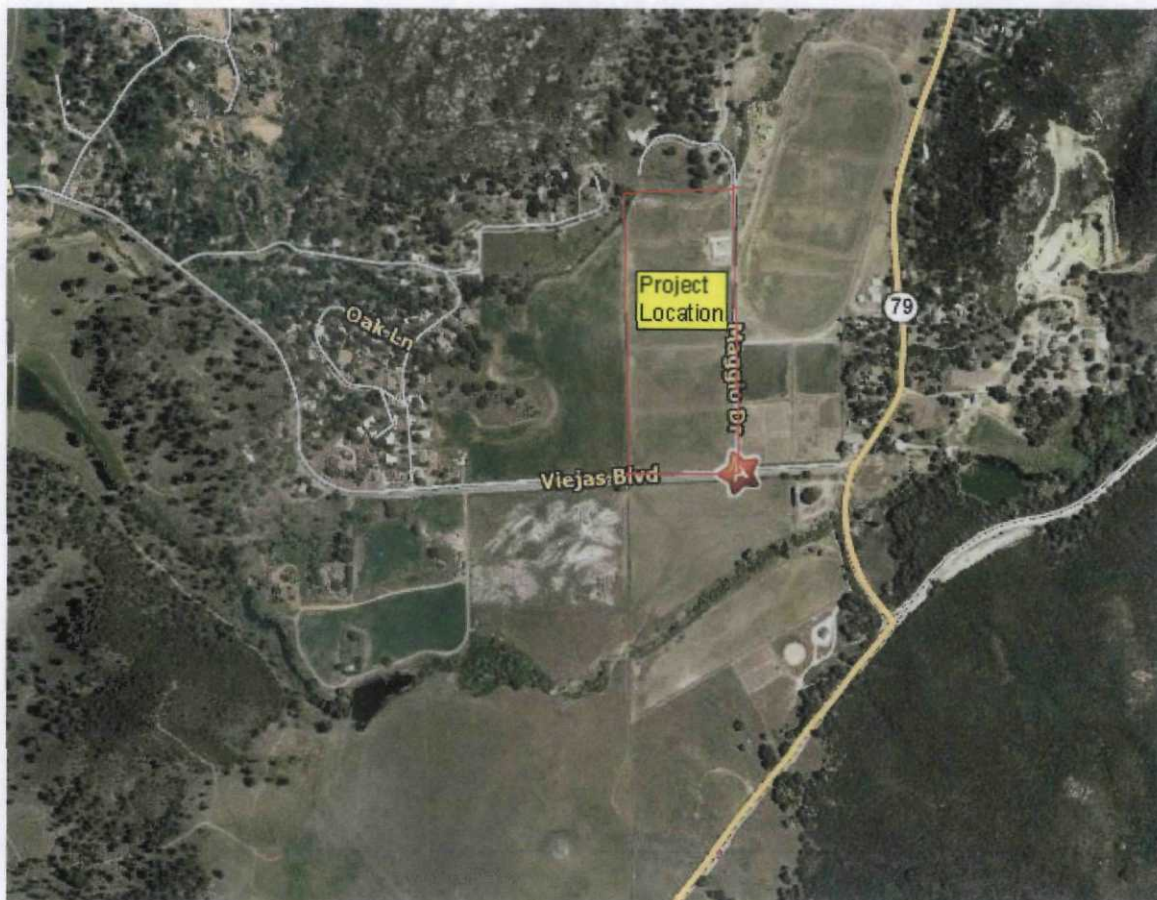
## **Project Discussion**

### **Project Purpose**

The project purpose is to establish finish floor elevations for the homes that will be built within this parcel map.

The project is located in the Descanso area and is on the north side of Viejas Blvd. and the west side of Maggio Drive. Below is the vicinity map together with an aerial photograph of the project and surrounding area.

### **Vicinity Map and Aerial Photograph of Project Area**



## Description of Watershed

The project does not have a defined watershed that drains to the property. Rather, the property is subject to sheet flow from the surrounding area and this sheet flow continues across the property. The significant flow that must be addressed is from Descanso Creek which runs along the north property line. This Creek exceeds its channel capacity in this area and sheet flows toward the south across this and neighboring property. There is no proposed grading on the property and so there is no affect on the point of entry or exit point of this natural sheet flow.

## Methodology

The hydrology analysis for this project was conducted in accordance with the San Diego County Hydrology Manual dated June 2003. Specifically Sections 1.3, 1.5, and 2.1 were followed to produce this report. The relevant parts of these sections of the Hydrology Manual are reproduced below.

### **1.3 INTENDED USE**

*This manual should not be used when there is already an established flood flow.*

### **1.5 DATA AVAILABLE FROM THE COUNTY OF SAN DIEGO DEPARTMENT OF PUBLIC WORKS FLOOD CONTROL SECTION**

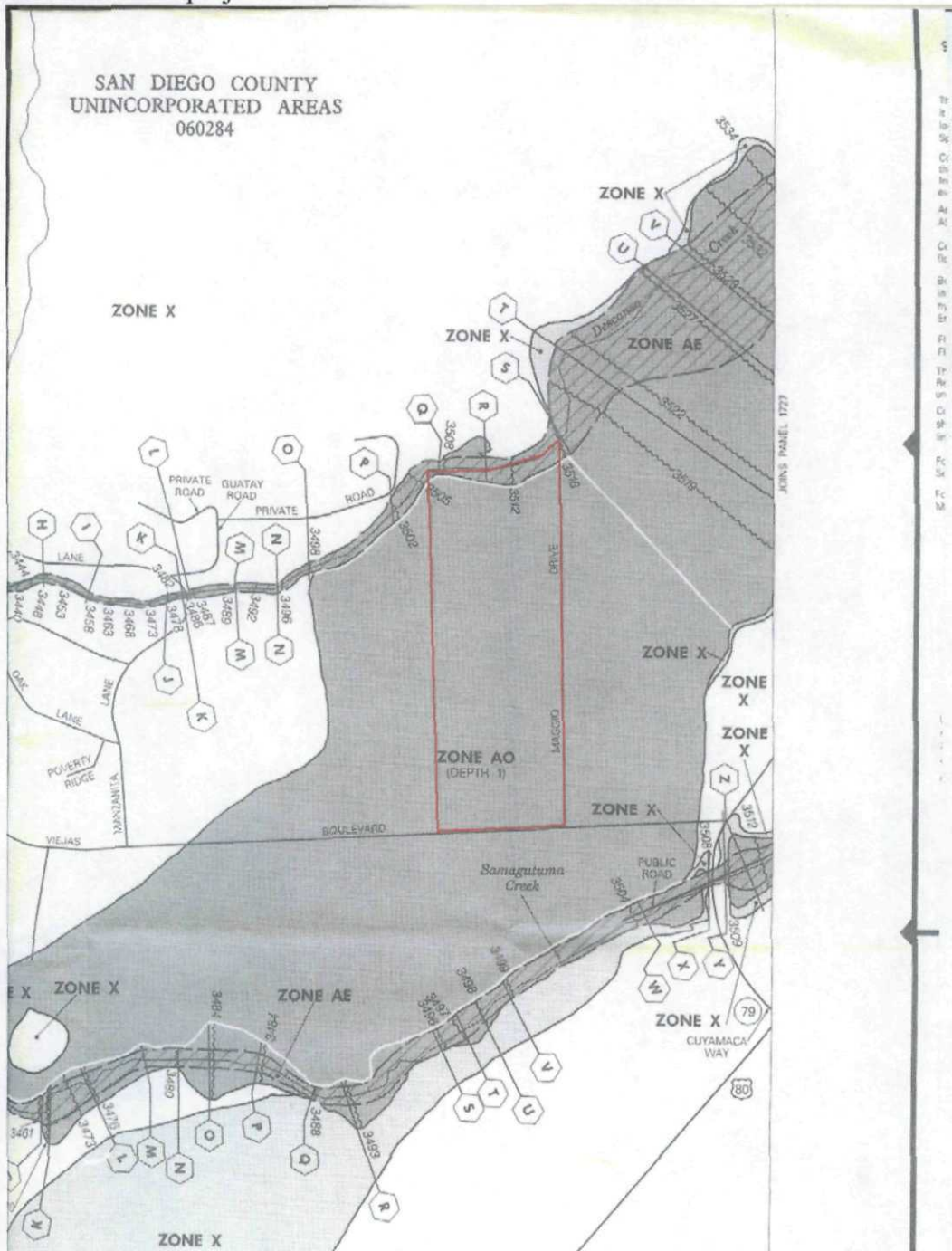
*A major function of the DPWFCS is the coordination of the flood control projects with the studies of other agencies. This coordination allows for consistent results. The County of San Diego has done a considerable amount of work with floodplain studies and flood control designs. These existing studies may be used as a reference (see Section 2).*

### **2.1 REGIONAL FLOOD FLOW INFORMATION**

*Political entities are responsible for establishing and regulating flood control functions. In most watersheds of major size or importance (especially urban areas) flood flows are already established through one or more of the following activities.*

*3. Flood Insurance Studies (FIS) – Rivers and creeks that have floodplain or alluvial fan maps may be identified through the Flood Insurance Study for San Diego County. The Corps used the flood flow frequency analysis for FIS in the 1970s. The Corps also used the frequency analysis method for the smaller flows and a rain/runoff analysis method to determine flows for the larger recurrence intervals. These maps and related information (including flood flows) are usually available at the offices of the political entity (city or county) that has land use jurisdiction. The local government and FEMA must approve any modification to the established flood flows.*

Because the project falls within a FEMA mapped area, the published Flood Insurance Rate Map (FIRM) Panel 1726 of 2375 information was used to establish the minimum finish floor elevations. A copy of the part of the FIRM that includes the project is shown below with the project outlined.



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### Summary

As can be seen from the existing Flood Insurance Rate Map that was produced by the FEMA after detailed study of Descanso Creek, this area is in a Zone A0 (Depth 1 foot). This represents the flood elevation that is possible during a 100-year flood. The finish floor elevations of the new homes should be one foot above the 100-year flood level or two feet above the existing ground.

### Conclusions

All finish floor elevations within this project are at least two feet above the existing ground and are therefore in conformance with both FEMA and County Flood Control regulations.

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**PRELIMINARY HYDROLOGY REPORT**

OWNER: Doug Shellstrom  
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El Cajon, CA 92020


**Declaration of Responsible Charge**

I hereby declare that I am the engineer of work for this project, that I have exercised responsible charge over the design of the project as defined in section 6703 of the Business and Professions Code, and the design is consistent with current standards.

I understand the check of the project drawings and specifications by the County of San Diego is confined to review and does not relieve me of responsibilities for project design.

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Elliott M. May R.C.E. 18592  
My registration expires 6-30-2011

01/25/10

Date